

Cipherschools Assignment → 3

Question-2

```

#include <iostream>
#include <cstdlib>
using namespace std;

typedef struct node
{
    int val;
    struct node * next;
} node;

node * head = NULL;
int count (node * head)
{
    node * p = head;
    int k = 1;
    while (p != NULL)
    {
        p = p->next;
        k++;
    }
    return k;
}

node * ll-reverse (node * head)
{
    node * p = head;
    long long int i = count (head), j = 1

```


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```
long int arr[i];
while (i && p != NULL)
{
    arr[j++] = p->val;
    p = p->next;
    i--;
}
j--;
while(j)
{
    cout << arr[j--] << " ";
}
return head;
}

node* insert_end(node* head, int data)
{
    node* q = head, *p = (node*) malloc(sizeof(node));
    p->val = data;
    while (q->next != NULL)
    {
        q = q->next;
    }
    q->next = p;
    p->next = NULL;
    return head;
}

node* create_ll(node* head, int data)
{
    node* p = (node*) malloc(sizeof(node));
```


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```
P -> val = data;
if (head == NULL)
{
    head = p;
    P -> next = NULL;
    return head;
}
else
{
    head = insert_end(head, data);
    return head;
}
```

```
int main()
{
    int i = 4, j = 1;
    while (i--)
    {
        head = create_ll(head, j++);
    }
    head = ll_reverse(head);
    return 0;
}
```

Input :- 1 → 2 → 3 → 4 → Null

4 → 3 → 2 → 1 → Null

Cipherschools Assignment 3MCQs

- ① ostream
- ② ifstream
- ③ fstream
- ④ ios::binary
- ⑤ if the file is opened for output operations and it already existed, its previous content is deleted and replaced by new one.
- ⑥ myFile.open("example.bin", ios::out);